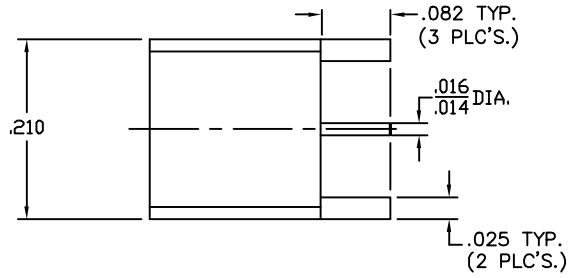
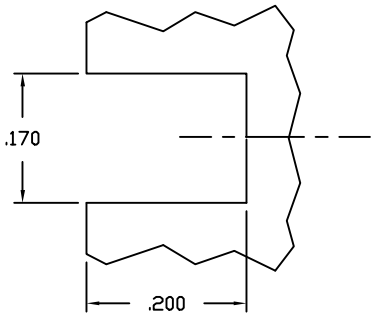
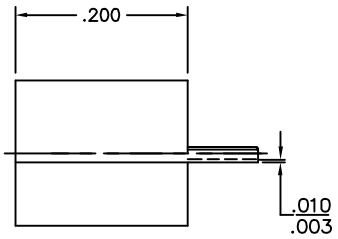
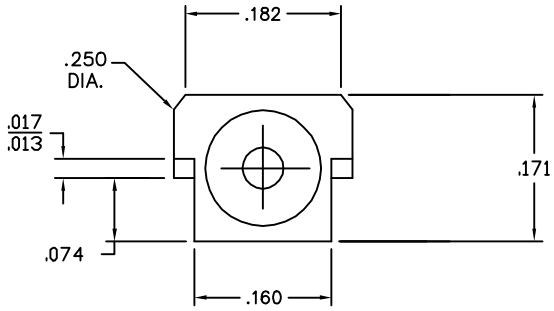
# SPECIFICATION CONTROL DRAWING




RECOMMENDED
MOUNTING DIMENSIONS




1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-21.

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 40.0 GHz. |
| VSWR (MAX.) ❋ | 1.10 + .010 x FGHz |
| INSERTION LOSS (dB MAX.) | .05 x $\sqrt{FGHz}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 170 |
| RF LEAKAGE (MIN. dB DOWN) | N/A |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | −65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 500 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 4.5 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ GARED TEST DATA

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 02-0850 | 10/15/02 | TS |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES

| DECIMALS | FRACTIONAL | ANGULAR |
|---|---|---|
| .X ±.030<br>.XX ±.010<br>.XXX ±.005 | ±1/64 | X° ± 1° 0'<br>X° X' ±15' |

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN BN DATE 10/15/02

APPROVED TS DATE 10/15/02

TITLE
SMP, MALE,
FULL DETENT,
EDGE MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2120-0232-6400

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

| | |
|---|---|
| CAPTIVATION–CENTER PIN | |
| MAX. AXIAL FORCE | 4.5 LBS. |
| MAX. RADIAL TORQUE | 4.0 IN. OZ. |
| CONNECTOR FORCES | |
| • ENGAGEMENT | 15.0 LBS. MAX. |
| • DISENGAGEMENT | 5.0 LBS. MIN. |
| CONNECTOR DURABILITY | 1,000 |

## 4. ENVIRONMENTAL

| | |
|---|---|
| TEMPERATURE CYCLING | MIL–STD–202, METHOD 102, COND. C ( –65° c TO + 165° c ) |
| SHOCK | MIL–STD–202, METHOD 213, COND. I (100 G's) |
| VIBRATION | MIL–STD–202, METHOD 204, COND. D (20 G's) |
| MOISTURE RESISTANCE | MIL–STD–202, METHOD 106, LESS STEP 7b |
| CORROSION | MIL–STD–202, METHOD 101, COND. B (48 HOURS) |
| BAROMETRIC PRESSURE (ALTITUDE) | MIL–STD–202, METHOD 105, COND. C ( 70,000 FT. ) ( 190 VRMS ) |

## 5. MATERIAL

| | |
|---|---|
| CONNECTOR BODY AND SLEEVE | STAINLESS STEEL PER ASTM–A313, TYPE 303 |
| CONTACT | BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY NO. UNS C17300. |
| INSULATOR | TEFLON PER ASTM D 4894–91. |

## 6. FINISH

| | |
|---|---|
| CONNECTOR BODY AND CONTACT | GOLD PER ATSM B 488, TYPE 2, CODE C, CLASS 0.75 (.000030–.000055 THK.) OVER NICKEL PER QQ–N–290 (.000050–.000075 THK.) OVER COPPER PER MIL–C–14550 (.000010 MIN. THK.). |
| SLEEVE | PASSIVATE PER QQ–P–35C, TYPE VI |
| INSULATOR | N/A |